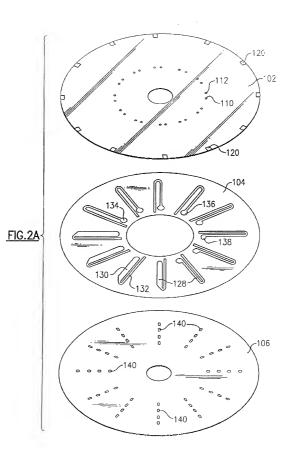


FIG. 1



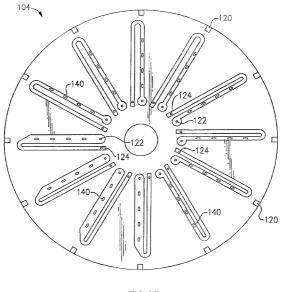
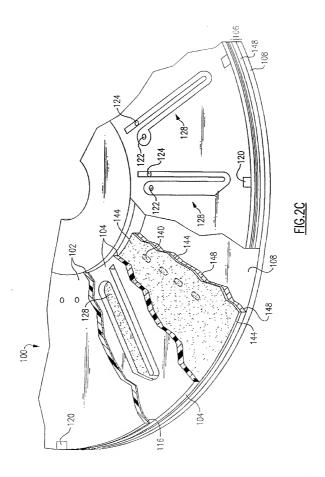
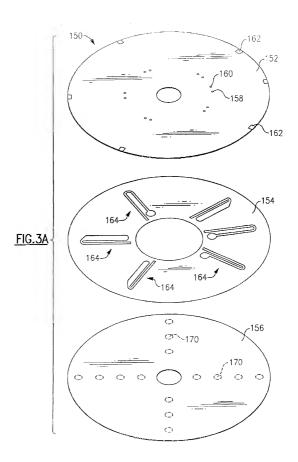


FIG.2B



MARKESS MAIL LABEL NO. ELS38702863US



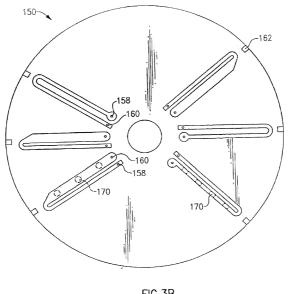
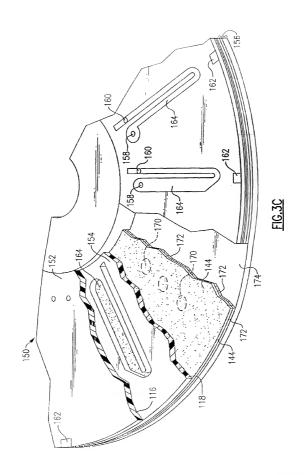
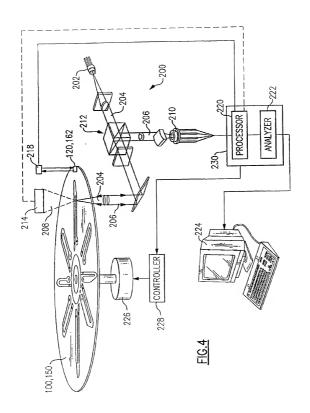
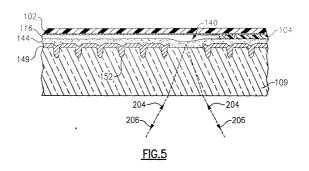
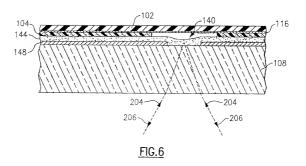


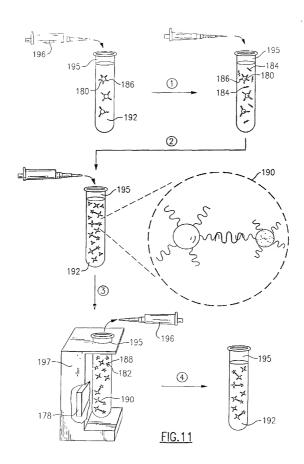
FIG.3B

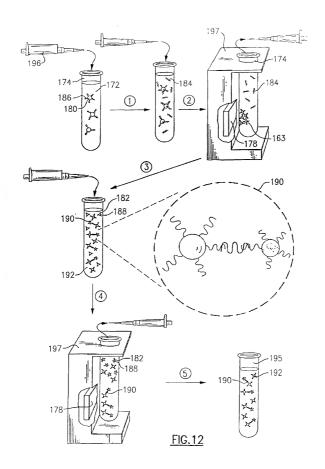


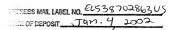


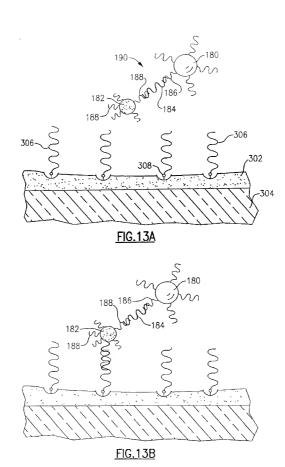












TANKESS MAIL LABEL NO. CL 538702863US

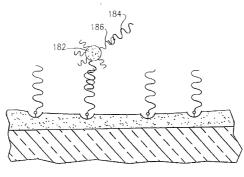


FIG.13C

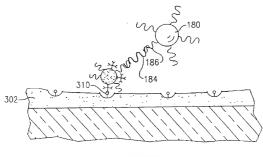


FIG.13D

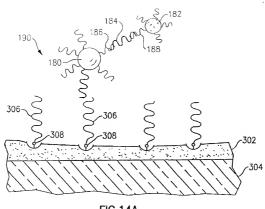


FIG.14A

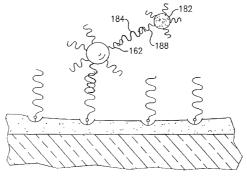
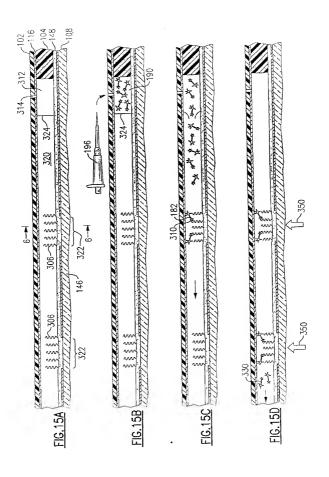
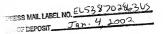
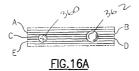


FIG.14B







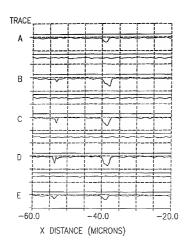
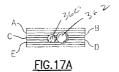


FIG.16B



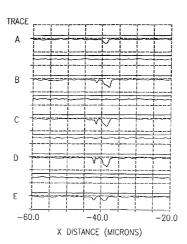
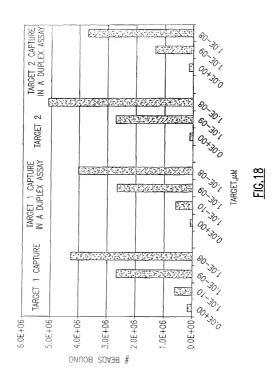


FIG.17B



DEPRESS MAIL LABEL NO. EL5387 W363 V5

MAGNETIC BEADS REPORTER BEADS DUPLEX ● ○ ○ ● ● ● ● ● W ○ ○ ● ● ● ● ● M ○ ○ ● ● ● ● ● M ○ ○ ● ● ● ● ●

DUAL BEAD ASSAY MULTIPLEXING

FIG.19

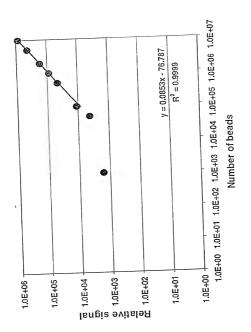
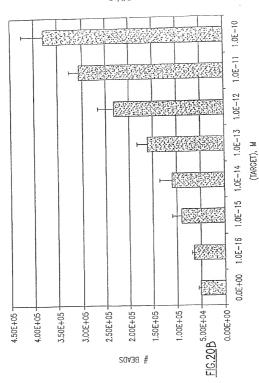


Figure 20 A



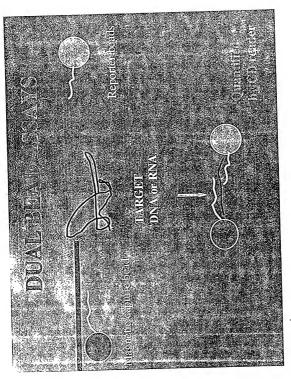
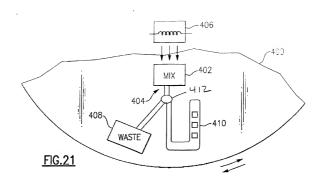
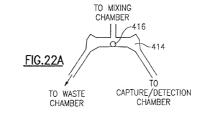
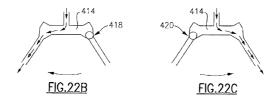
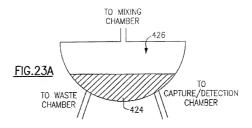


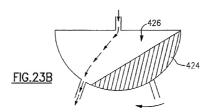
Figure 20C

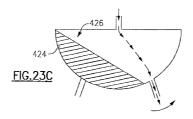












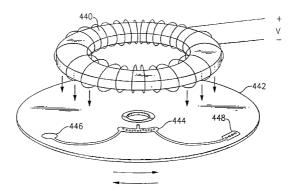
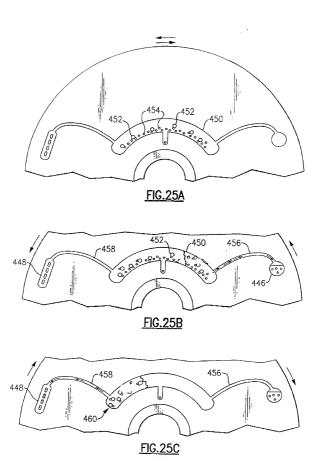


FIG.24



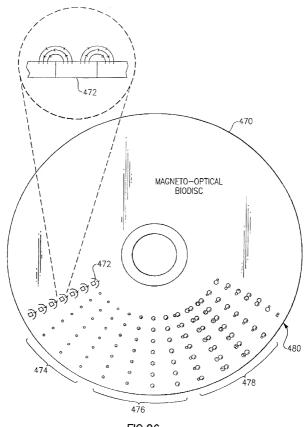


FIG.26

Figured

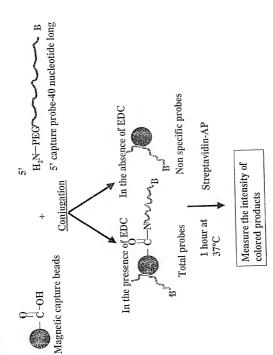
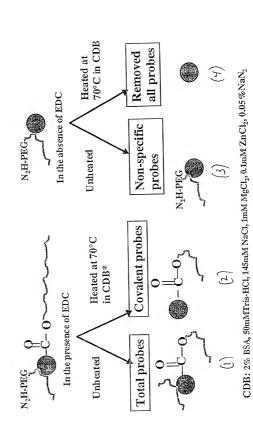


Figure 38;



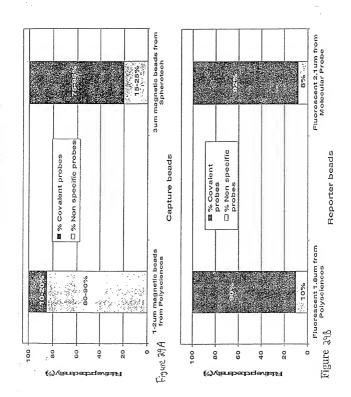


Figure 30 A

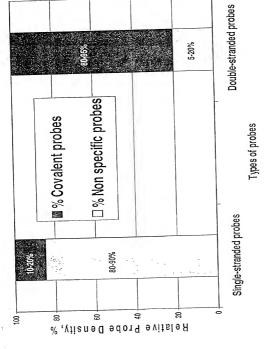
5 A s

Open bases--more hydrophobic interactions with bead's surface

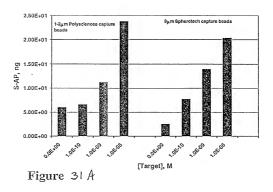
o biotin

PEG

Complementary strand hybridized--no open bases, less hybrophobic interactions with bead surface



F16.30B



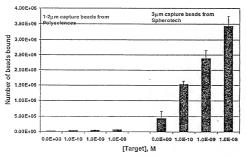


Figure 31 B

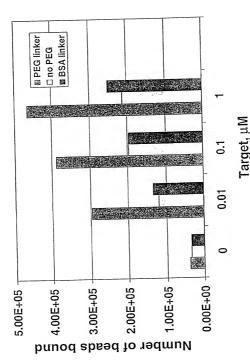


Figure 34